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JPL 1769 (TYPE 3)

NUMBER

489

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "essentially similar" to Form LSB-OOS-4)

SECTION I IDENTIFICATION OF PRODUCT

MANUFACTURER'S NAME AMERICAN CYANAMID COMPANY	EMERGENCY TELEPHONE NO. (201) 835-3100
ADDRESS Old Post Road, Havre de Grace, Maryland 21078	
TRADE NAME AND SYNONYMS HT-424-F Primer	
CHEMICAL NAME AND SYNONYMS Solution of epoxy and phenolic resins with aluminum powder in mixture of organic solvents	
CHEMICAL FAMILY Not applicable	MOLECULAR FORMULA Not applicable

SECTION II HAZARDOUS COMPONENTS OF MIXTURES

COMPONENT	%	THRESHOLD LIMIT VALUE (UNITS)	COMPONENT	%	THRESHOLD LIMIT VALUE (UNITS)
Ethylene dichloride ✓	21		50 parts per million		
Dioxane ✓	14		50 parts per million (skin)		
sec-Butyl alcohol ✓	11		150 parts per million		
Ethyl alcohol ✓	11		1000 parts per million		
Toluene	11		100 parts per million		
Methyl ethyl ketone	4		200 parts per million		

SECTION III PHYSICAL DATA

APPEARANCE AND ODOR Dark-colored liquid with aluminum powder usually in bottom of container; odor of chloroform			
BOILING POINT (DEGREES FAHRENHEIT)	Not available	SPECIFIC GRAVITY (WATER = 1)	About 1.1
VAPOR PRESSURE (MM. OF MERCURY)	Not available	PERCENT VOLATILE (BY VOLUME)	About 70 (by weight)
VAPOR DENSITY (AIR = 1)	Not available	EVAPORATION RATE (BUTYL ACETATE = 1)	Not available
SOLUBILITY IN WATER	Moderate	EVAPORATION RATE (ETHYL ETHER = 1)	Not available

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SPECIFY METHOD) (DEGREES FAHRENHEIT)	33 Tag Closed Cup	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LOWER Not available	UPPER Not available
FIRE-EXTINGUISHING MEDIA Dry chemical, carbon dioxide or foam; water spray may be ineffective				
SPECIAL FIRE-FIGHTING PROCEDURES Use water to keep fire-exposed containers cool				
UNUSUAL FIRE AND EXPLOSION HAZARDS Burning produces hydrochloric acid gas. Wear self-contained breathing apparatus				

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SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Prolonged or repeated inhalation of vapor may cause dizziness or drowsiness. Prolonged or repeated contact of liquid with skin may cause dryness and irritation
EMERGENCY AND FIRST AID PROCEDURES	If symptoms occur from inhalation of vapor, proceed to fresh air. Flush skin and eye contact promptly with plenty of water.

SECTION VI REACTIVITY DATA		
STABILITY	UNSTABLE	CONDITIONS TO AVOID None
	STABLE	
INCOMPATIBILITY (Materials to avoid)	No specific incompatibility	
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may produce carbon monoxide carbon dioxide and/or hydrogen chloride.	
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID None
	WILL NOT OCCUR	

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Remove sources of ignition and wear respiratory protection. Cover with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.
WASTE DISPOSAL METHOD	Incinerate or bury in a landfill

SECTION VIII SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)		If concentration exceeds TIV, wear a respirator approved by the U. S. Bureau of Mines for organic vapors	
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL None
	MECHANICAL (General)	Acceptable	OTHER None
PROTECTIVE GLOVES Rubber of plastic		EYE PROTECTION Splashproof goggles	
OTHER PROTECTIVE EQUIPMENT		None	

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Precautions for a Class IB flammable liquid
OTHER PRECAUTIONS	None

SECTION X DATE AND SOURCE OF INFORMATION		
DATE June 27, 1972	NAME AND TITLE C. Boyd Shaffer, Ph.D. Director of Toxicology	SHEET NUMBER 489